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ABSTRACT

Methods for teaching students to recognize and manipulate structures of cohesion in reading materials are discussed. Teaching students to connect text involves a strategy that combines reading and writing in student- and teacher-directed activities. An example illustrates how the strategy can be applied with specific course content, a ninth-grade unit on the Civil War. In small groups, students generate three statements that come to mind related to the war, and the class identifies statements appropriate to the topic. Next, students discuss a list of connective words and then write a paragraph using connecting words to join together their statements about the war. Finally, students are provided a modified cloze passage from the text with existing connectives removed. Any sentences that could be connected are separated by a blank space, and students use the list to fill in the connecting words, after, which the class discusses connectives that were chosen. It is suggested that creating cohesive statements helps students grow in syntactic maturity and metalinguistic awareness. A list of connectives and a sample cloze passage with missing connectives are included. (SW)

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College Reading and Learning Assistance Technical Report 85-04

Teaching Students to Recognize and Manipulate Structures of Cohesion

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Teaching Students to Recognize and Manipulate Structures of Cohesion

Researchers have documented the developmental changes that occur across ages in children's metalinguistic awareness of written communication (Beilin & Lust, 1975; Chomsky, 1969; Yopp Singer, 1984). It comes as no surprise that children's understanding of various facets of written language improves with Young readers direct a great deal of their attention to surface characteristics such as sounding letters and words (Polk & Goldstein, 1980; Perfetti & Beck, 1982). The mature reader, on the other hand, employs various reading and thinking strategies relative to what the reader chooses to consider intended, appropriate and important (Hufifman, Edwards & Green, 1982) and integrates several viewpoints in constructing personal "truths" While the former skills are necessary for success in learning to read (Liberman, Shankweiler, Liberman, Fowler & Fischer, 1977), the latter skills are essential for meeting the demands posed by the great variety and complexity of reading material encountered by students in secondary school and college.

At the heart of metalinguistic awareness is the ability to think inferentially. In order to make inferences, the reader is required to possess adequate background knowledge, knowledge of text structures and knowledge of causal relations between propositions and events (Trabasso, 1981). According to Anderson and Armbruster (1984), inconsiderate text lacks, among other

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things, coherence, that is, the connecting words and structures which explicate relationships among propositions and contribute to a smooth flow of meaning from one idea to the next. Incoherent text places a particularly heavy burden on the reader because it forces the reader to bridge many ideas inferentially which could have been tied together more explicitly by the author. The point here is that the more inferences the reader has to make, the greater the chance for the author's message to be Mature readers are better able to surmount misconstrued. problems posed by an incohesive surface structure than readers of less ability. Support for this contention comes from Johnston's (1981) study of reading comprehension test bias. He found that mature readers supply the missing links in text and as a result gain a deeper understanding of the material they read, as reflected in their superior performance on higher level test questions. Unfortunately, many upper level students do not understand the role of connectives in discourse or do not possess the degree of metalinguistic awareness necessary for mature reading (Marshall & Glock, 1978-1979). Based on the developmental nature of metalinguistic awareness and what we are learning about how good readers "connect" text, I have been promoting in my secondary reading courses methods for teaching students to recognize and manipulate structures of cohesion.

Teaching Students to Connect Text

A linguistic connective can be defined as a syntactic structure that Signals underlying logico-semantic relations and links propositions within or between sentences as a single word or a phrase (Walmsley, 1977). Interestingly, when a connective is used in a sentence it often has the effect of increasing the grammatical complexity of the sentence (Pearson & Camperell, 1981). Connectives are used to form compound sentences and subordinate clauses. Yet, in spite of this increased complexitiy, researchers have repeatedly found that when given a choice, readers prefer explicit descriptions of causal relations by the use of connectives over a simple surface form without relations stated (Katz & Brent, 1968; Marshall & Glock, 1978-1979; Pearson, 1974-1975). Nevertheless, in the ecology of academic learning, students are not given choices in this matter. They must read what teachers request them to read.

The process of teaching students tonnect text involves an instructional strategy which combines reading and writing in student-directed and teacher-directed activities. The following example will illustrate how the instructional strategy can be used with specific course content. The lesson begins a unit on the Civil War in a ninth grade history class.

STEP ONE: In small groups, students are asked to generate three statments that come to mind related to the Civil War. Afterward, the whole class responds to each group's statements. Finally, the class decides on those statements they like and deem

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appropriate to the topic. The statments are written on the board. Here is a list of typical statments a class might derive.

*The Civil War was faught for many reasons.

- *The major reason the Civil War was faught was to free slaves.
- *The Civil War was not faught with a foreign country.
- *American faught American in the Civil War.
- *Abraham Lincoln was president.
- *Many soldiers from both sides died.

Besides laying the foundation for manipulating connectives, this activity serves two additional purposes. First, it provides students a stimulus for prior knowledge activation. Discussions of the important role prior knowledge plays in reading comprehension are available in Anderson (1984) and Rumelhart (1981). Second, it stimulates group discussion and can increase student motivation. It is advised that the teacher remain nondirective but facilitate discussion by prodding, and asking open-ended questions.

(see Appendix) and the significance of the words is discussed. In order for students to see how these words operate in context, they are directed to go through a restricted section of their text and identify the connecting words from the list or any other connectives they find. The teacher and students then discuss the role each connective plays in context by considering the meaning of adjoining propositions and the relationship between the

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propositions that the connective links.

STEP THREE: After reforming their groups, students are asked to write a paragraph using connecting words to join together the statements they generated about the Civil War. Each group's method for connecting the statements is then shared with the whole class and differences are discussed relative to intended meaning. Here is the way one group might connect the statements.

Although the Civil War was faught for many reasons, the major reason the Civil War was faught was to free slaves. The Civil War was not faught with a foreign country, rather, American faught American in the Civil War, and many soldiers from both sides died.

At that time, Abraham Lincoln was president,

STEP FOUR: Students are provided a modified cloze passage from the textwith existing connectives taken out and any sentences that could be connected separated by a blank space (see Appendix). They are asked to fill in the connecting words using their list. When finished, the class discusses their answers with individual students providing explanations and rationales for the particular connective they chose. The class discusses how meaning can be changed depending upon the connective used to join ideas and how different connectives can be used to express the same idea. And finally, the teacher and the class determine whether or not the passage was made easier to understand after appropriate connectives were inserted. It has been my experience

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that students respond in unanimity saying the text passage read more "smoothly" and "made more sense."

At this point in the instructional sequence students are a bit more motivated and ready to read the textbook chapter on the Civil War. In addition, they embark on the reading assignment with a watchful eye for structures provided by the author that help explain how ideas are related. What is more, students are better able to recognize text that is incohesive and use their new knowledge about connectives to improve understanding.

Summary

Coherent text is easier to read and understand (Anderson & Armbruster, 1984) in spite of the fact that text surface structure is likely, to become more complex (Pearson & Camperell, 1981). Cohesive statements make more explicit what is otherwise left to the reader's inferential powers. It is an unfortunate fact of life, however, that textbooks are not always written Consequently, students are forced to infer coherently. relationships on their own. The ability to link ideas in a disjointed text may be enhanced by Helping students recognize and manipulate structures of cohesion. The instructional strategy described in this paper is one way to translate recent research on the salutory effects of linguistic connectives into classroom The author believes that giving students the applications. opportunity to create cohesive statements will lead to growth in syntactic maturity and metalinguistic awareness.

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APPENDIX

A List of Connectives

then moreover also · likewise for this reason because · hence accordingly soon. at that time while after in the meantime however although on the other hand In spize of by this time

another besides in addition as well as in order to . so that thus as a result at last subsequently. meanwhile *during* even though on the contrary notwithstanding in comparison instead.

finally next furthermore and since therefore consequently now . until. already afterwards: but otherwise · nevertheless rather that even so

A Cloze Passage with Missing Connectives

The Battle of Antietam Creek

America was well into the Civil War, (1) _____ many battles had been faught between North and South. (2)____ was bloodier nor more puzzling than the Battle of Antietam Creek. General George B. McClellan was the commander of the Union Army of the Potomac. He was chasing General Robert E. Lee's Confederate Army in Maryland. On September 13th, and odd thing happened. Mclellan's army was near Frederick, Maryland (3) one of his soldiers, Private Barton Mitchell, found three cigars wrapped in a piece of paper lying in a field. The paper turned out to be an order signed by General Lee entitled "Special Orders 191 mehe orders instructed Lee's generals to split their army ur part. Generals almost never split up their army in the face of the enemy (4) _____ each part is mall and weak by (5) the order must have seemed unusual to itself.



McClellan was by nature a suspicious man. (6)
, he must have thought that Lee was trying to trick
him by planting a fake order where Union soldiers would find it.
If you look at McClellan's actions over the next few days, he
certainly behaved as if he thought Lee was trying to trick him.
Three days later, on September 16th, McClellan tracked down Lee's
army at the town of Sharpsburg near Antietam Creek. (7)
all but one of Lee's four units had rejoined
him, (8) he was nearly ready for battle. (9)
Lee's forces were still badly outnumbered. (10)still
McClellan did not attack. He waited on more day on the excuse
(11) there were so few troops facing him that hethought
Lee had already retreated. (12) it was not until the
morning of September. 17th that he attacked Lee's Confederates in
large cornfield. (13), of course, the
Confederates had set up many cannons with which they killed
thousands of McClellan's men. Halfway through the morning, the
battle reached an old roadway in the middle of the field. This
road later became known as Bloody Lane (14) so many
soldiers were killed there. (15), another battle was
beginning on the banks of Antietam Creek. This creek had only a
single-lane arched bridge for all the soldiers to get across.
(16), it was only about 50 feet wide
and only waist deep. General Ambrose Burnside was on one side of
the creek with 10,000 Union troops. On a hill on the other side
of the creek were a mere 500 Confederate soldiers who were
shooting. down at Burnside's helpless men. Burnside was supposed
to cross the creek in the morning and take the hill. He would

have been able to go to the aid of General
McClellan's troops. If he had, it would probably have ended the
battle and the Civil War as well. (18), Burnside
wasted hours wondering how his troops could get across the small
bridge. He did not realize that they could have easily waded
across the creek. By the time he managed to get enough mer
across the bridge to drive the Confederates from the hill,
General Lee's fourth group had arrived (19) he had set up
a strong battle line. (20), by the end of the day, while
very little ground had changed hands, 25000 Americans were dead.
It was the bloodiest day of fighting in American history. The
next day, there was no fighting (21) both armies were
exhausted. (22), McClellan still had thousands of men
in reserve who had not yet fought. Why did he not use them
against Lee's battered army? Apparently he was still suspicious.
(23), the Confederate army was able to slip away during
the night (24). the war continued for three more bloody
years.
Answers to Cloze Exercise
1. and 2. But 3. when 4. because 5. So 6 As a result
7 Du Abah Aim
10. But 11. that 12. Thus
13. By this time14. because15. Meanwhile
16. On the other hand 17. then 18. Instead
19. and 20. So 21. because
22. However 23. Consequently 24, and

Master List.

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